

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A medical device for vessel occlusion, the medical device comprising:

an elongated body having a distal end portion, a proximal end portion, and a lumen disposed therethrough, at least part of the proximal end portion of the elongated body having an outer cross-sectional dimension less than an outer cross-sectional dimension of another portion of the proximal end portion of the elongated body;

a balloon disposed at the distal end portion of the elongated body, the balloon in fluid communication with the lumen;

an opening defined at the proximal end portion of the elongated body, the opening being in fluid communication with the balloon via the lumen; and

a valve body moveably disposed at the proximal end portion of the elongated body, the valve body movable between a closed position and an open position, the valve body configured to engage an exterior surface of the proximal end portion of the elongated body, distal to the opening, to seal the opening when the valve body is in the closed position.

2. (Original) The medical device according to Claim 1, wherein the surface engaged by the valve body when in the closed position is an outer surface of the elongated body.

3. (Currently Amended) The medical device according to Claim 1, wherein at least part of the proximal end portion of the elongated body has an outer cross-sectional dimension less than an

outer cross-sectional dimension of the distal end portion of the elongated body.

4. (Original) The medical device according to Claim 3, wherein the valve body includes a side wall having a cavity defined therein to receive the proximal end portion of the elongated body, the valve body having an outer surface substantially flush with an outer surface of the distal end portion of the elongated body when in the closed position.

5. (Original) The medical device according to Claim 1, wherein the opening is defined in a side wall of the proximal end portion of the elongated body.

6. (Withdrawn) The medical device according to Claim 1, wherein an inflation port is defined in a side wall of the valve body.

7. (Original) The medical device according to Claim 1, wherein the valve body and the elongated body are configured for mating engagement to prevent inadvertent movement of the valve body at least when in the closed position.

8. (Withdrawn) The medical device according to Claim 7, wherein the mating engagement includes a projection extending from a surface of at least one of the valve body and elongated body.

9. (Original) The medical device according to Claim 1, wherein the valve body is moveable in an axial and rotational direction relative to the elongated body.

10. (Currently Amended) A medical device for vessel occlusion, the medical device

comprising:

an elongated body having a distal end portion, a proximal end portion, and a lumen disposed therethrough, at least part of the proximal end portion of the elongated body having an outer cross-sectional dimension less than an outer cross-sectional dimension of another portion of the proximal end portion of the elongated body;

a balloon disposed at the distal end portion of the elongated body, the balloon in fluid communication with the lumen;

an opening defined at the proximal end portion of the elongated body, the opening being in fluid communication with the balloon via the lumen; and

a valve body moveably disposed at the proximal end portion of the elongated body, the valve body movable between a closed position and an open position, the valve body configured to engage an outer surface of the elongated body to seal the opening when the valve body is in the closed position.

11. (Currently Amended) The medical device according to Claim 10, wherein at least part of the proximal end portion of the elongated body has an outer cross-sectional dimension less than an outer cross-sectional dimension of the distal end portion of the elongated body.

12. (Original) The medical device according to Claim 11, wherein the valve body includes a side wall having a cavity defined therein to receive the proximal end portion of the elongated body, the valve body having an outer surface substantially flush with an outer surface of the distal end portion of the elongated body when in the closed position.

13. (Original) The medical device according to Claim 10, wherein the valve body and the elongated body are configured for mating engagement to prevent inadvertent movement of the valve body at least when in the closed position.

14. (Original) The medical device according to Claim 13, wherein the mating engagement includes a projection extending from a surface of at least one of the valve body and elongated body.

15. (Original) The medical device according to Claim 10, wherein the valve body is moveable in an axial and rotational direction relative to the elongated body.

16. (Original) The medical device according to Claim 10, wherein the elongated body is constructed of Nitinol.

17. (Original) The medical device according to Claim 10, wherein the proximal end of the elongated body has a diameter less than the distal end.

18. (Original) The medical device according to Claim 17, wherein the elongated body further includes a step adjacent to the proximal end of the elongated body wherein the step transitions the elongated body between the distal diameter and the proximal diameter.

19. (Original) The medical device according to Claim 18, wherein when the valve body is in a closed position the valve body sealingly engages the step.

20. (Withdrawn) A medical device for vessel occlusion, the medical device comprising:

- a. an elongated body having a distal end portion, a proximal end portion, and a lumen disposed therethrough;
- b. an balloon disposed at the distal end portion of the elongated body, the balloon in fluid communication with the lumen;
- c. an opening defined at the proximal end portion of the elongated body, the opening being in fluid communication with the balloon via the lumen; and
- d. a valve body moveably disposed at the proximal end portion of the elongated body, the valve body movable between a closed position and an open position, the valve body configured to engage an outer surface at the proximal end portion of the elongated body, distal to the opening, to seal the opening when the valve body is in the closed position, the valve body including a side wall having a cavity defined therein to receive the proximal end portion of the elongated body, and an outer surface substantially flush with an outer surface of the distal end portion of the elongated body when in the closed position, at least one of the valve body and the elongated body having a projection extending therefrom for mating engagement with the other of the valve body and the elongated body to prevent inadvertent movement of the valve body at least when in the closed position.